

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/644,365	08/20/2003	Brent A. Holcombe	10030690-1	6401	
75	90 04/30/2004		EXAMINER		
AGILENT TECHNOLOGIES, INC.			NGUYEN, JIMMY		
Legal Department, DL429 Intellectual Property Administration			ART UNIT	PAPER NUMBER	
P.O. Box 7599			2829		
Loveland, CO	80537-0599		DATE MAILED: 04/30/200	DATE MAILED: 04/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

			_ am
	Application No.	Applicant(s)	
Office Astion Comments	10/644,365	HOLCOMBE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jimmy Nguyen	2829	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence addre	9SS
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by staf Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of thi od will apply and will expire SIX (6) MOI ute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this comn BANDONED (35 U.S.C. § 133).	nunication.
Status			
1) ☐ Responsive to communication(s) filed on 20 2a) ☐ This action is FINAL. 2b) ☐ This action is FINAL. 2b) ☐ This action is application is in condition for allow closed in accordance with the practice under	his action is non-final. vance except for formal mat		nerits is
Disposition of Claims			
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) 11-20 is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exami 10)☒ The drawing(s) filed on 20 August 2003 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the corn 11)☐ The oath or declaration is objected to by the	e: a)⊠ accepted or b)□ o he drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National St	age
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	Paper No 5) Notice of	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-19	52)
Paper No(s)/Mail Date	´ 6) ☐ Other:		

Art Unit: 2829 -

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 7 and 9, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang (US 6091253).

As to claim 1, Huang discloses a device (figure 2) comprising:

a housing (400, working plate) having a first side (upper side of housing 400) and an opposing second side (bottom side of housing 400), wherein the housing (400, working plate) comprises:

an opening (413) extending from the first side (bottom side of housing 400) to the second side (upper side of housing 400); and

multiple alignment pins (414, 211P2, the pins 211P2 is extending from the surface of electronic probe 200 into the guide holes 411 and to hole 11, therefore it is embedded in housing 400) imbedded in the housing (400, working plate), and extending external to both first (bottom side of housing 400) and second sides (upper side of housing 400), wherein on the first side (bottom side of housing 400) the alignment pins (414) are capable of insertion into matching holes (214) on an electronic probe (200), and wherein on the second side (upper side of housing 400) the alignment pins (211P2, the pins 211P2 is extending from the surface of electronic probe 200 into

Art Unit: 2829

Alt Office 2020

the guide holes 411 and to hole 11, therefore it is embedded in housing 400) are capable of insertion into matching holes (11, fig 3A) on an electronic circuit assembly (10, fig 3A).

As to claim 2, Huang discloses (fig 2) a device as recited in claim 1, further comprising at least one fastener part (415, attaching holes) capable of attaching the electronic probe (200) to the housing (400).

As to claims 3, 5, Huang discloses (fig 2) a device as recited in claim 2, wherein the fastener part (415) comprises a threaded screw hole (415) into which a screw (500) attached to the electronic probe (200) can be inserted.

As to claim 4, Huang discloses (fig 2) a device as recited in claim 1, wherein the at least one fastener part (415) comprises two fastener parts (415).

As to claim 6, Huang discloses (fig 2) a device as recited in claim 1, wherein the axis of each alignment pin (414, 211P2) is parallel to the axis of the opening (413).

As to claim 7, Huang discloses (fig 2) a device as recited in claim 1, wherein on the second side (upper side of housing 400) the alignment pins (211P2, the pins 211P2 is extending from the surface of electronic probe 200 into the guide holes 411 and to hole 11, therefore it is embedded in housing 400) are capable of attachment to the

Art Unit: 2829

electronic circuit assembly (10, fig 3) following their insertion into the electronic circuit assembly (10) matching holes (11).

As to claim 9, Huang discloses (fig 3) a device as recited in claim 1, wherein the electronic circuit assembly (10, fig 3) is a printed circuit board (10).

As to claim 10, Huang discloses (fig 2) a device as recited in claim 1, wherein the multiple alignment pins (414, 211P2) comprise four alignment pins (414, 211P2).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (US 6091253).

As to claim 8, Huang discloses (fig 3) all the limit combination of the claims 1 and 7 except for attaching of the alignment pins to the electronic circuit assembly is effected by soldering the alignment pins into the electronic circuit assembly matching holes.

However, it would have been obvious for Huang to attach the alignment pins (211P2) to the electronic circuit assembly (10) by soldering the alignment

pins (211P2) into the electronic assembly matching holes (11) for the benefit of firmly securing the electronic circuit (10) to the working plate (400) during the testing process.

Allowable Subject Matter

5. Claim 11 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior arts of record are silent on the combination of the limitation on claim 1 and further limit of a device comprising a first key, wherein when the first key is aligned with a matching geometry on the electronic probe, entry of the electronic probe into the opening is enabled, otherwise entry is prevented. In addition, a first key is able to prevent an unwanted electronic probe come to contact with a device under test, and therefore providing a precise tester.

6. Claims 12 – 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior arts of record are silent on the combination of the limitation on claim 1 and further limit of a device comprising a second key, wherein when the second key is aligned with a matching geometry on the electronic circuit assembly, attachment of the device to the electronic circuit assembly is enabled, otherwise such entry is prevented.

Art Unit: 2829

In addition, a second key provides a precise position on device under test for the electronic probe comes to contact, and therefore providing a precise positioning.

Page 6

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy Nguyen at (703) 306-5858. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4900.

JN.

April 23, 2004